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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/770,639

DATE: 08/23/2004

TIME: 16:41:31

Input Set : A:\27331-501CIP2A.ST25.txt  
 Output Set: N:\CRF4\08232004\J770639.raw

3 <110> APPLICANT: Sanchez-Madrid, Francisco  
 4 Martinez Alonso, Carlos  
 5 Sancho Madrid, David  
 6 Engel Rocamora, Pablo  
 7 Esplugues Artola, Enric  
 8 Vega Ramos, Javier  
 9 Lauzurica Gomez, Pilar  
 11 <120> TITLE OF INVENTION: Immune Regulation Based on the Targeting of Early Activation  
 12 Molecules  
 14 <130> FILE REFERENCE: 27331-501CIP2A  
 16 <140> CURRENT APPLICATION NUMBER: 10/770639  
 17 <141> CURRENT FILING DATE: 2004-02-02  
 19 <150> PRIOR APPLICATION NUMBER: ES 200300252  
 20 <151> PRIOR FILING DATE: 2003-01-31  
 22 <150> PRIOR APPLICATION NUMBER: ES 200302587  
 23 <151> PRIOR FILING DATE: 2003-11-05  
 25 <160> NUMBER OF SEQ ID NOS: 6  
 27 <170> SOFTWARE: PatentIn version 3.2  
 29 <210> SEQ ID NO: 1  
 30 <211> LENGTH: 1702  
 31 <212> TYPE: DNA  
 32 <213> ORGANISM: Homo sapiens  
 34 <400> SEQUENCE: 1  
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 39 ttgcattccgg agagtggaca agaaaaatgtat gccaccagtc cccattctc aacacgtcat 180  
 41 gaagggtcct tccaaaggccc tggctgtgt gctgtatga atgtggtctt catcaccatt 240  
 43 ttaatcatag ctctcattgc cttatcagtgc ggccaaataca attgtccagg ccaatacaca 300  
 45 ttctcaatgc catcagacag ccatgtttct tcattgtctg aggactgggt tggctaccag 360  
 47 agaaaaatgtt actttatccc tactgtgaag aggagctgga cttcagccca aaatgttgt 420  
 49 tctgaacatg gtgctactct tggctgtcatt gattctgaaa aggacatgaa ctttctaaaa 480  
 51 cgatacgcag gtagagagga acactgggtt ggactaaaa agaaacctgg tcacccatgg 540  
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 55 gttttctga aaaacacaga ggtcagcgc atggaatgtg agaagaattt atactggata 660  
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 59 actcaaggaa atctgtgtca gtggatgtctg ctctgtggtc cgaagtcttc catagagact 780  
 61 ttgtgaaaaaa aaattttata gtgtcttggg aattttcttc caaacagaac tatggaaaaaa 840  
 63 aaggaagaaaa ttccaggaaaa atctgcactg tggctttta ttgccatgag ctggaaagcat 900  
 65 cacaggttga ccaataacca tgcccaagaa tgagaagaat gactatgca cctttggatg 960  
 67 cactttat tatattgtat ccagaaataa tgaaataact aggcgtggac ttactattta 1020  
 69 ttgtgtatg actaccaaca gtgagagccc ttcatgcatt tgcaactactg gaaggaggta 1080  
 71 gatgttggta ctagatactg aatgtaaaca aaggaattat ggctggtaac ataggttttt 1140  
 73 agtctaattt aatcccttaa actcaggag catttataaa tggacaaatg cttatgaaac 1200

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75 taagtttgt aatatttctc tctttttaga gaaatttgcc aatttacttt gttatttttc  
 77 cccaaaaaga atgggatgat cgtgttattt ttttttact tcctcagctg tagacaggc 1260  
 79 ctttcgatg gtacatattt cttgccttt ataatcttt atacagtgtc ttacagagaa 1320  
 81 aagacataag caaagactat gaggaaatatt tgcaagacat agaatagtg tggaaaatgt 1380  
 83 gcaatatgtg atgtggcaaa tctctttag gaaatattct gtaatcttca gacctagaat 1440  
 85 aatactagtc ttataatagg tttgtgactt tcctaaatca attctattac gtgcaatact 1500  
 87 tcaatacttc atttaaaaata ttttatgtg caataaaaatg tatttgtttg tattttgtgt 1560  
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 106 20 25 30  
 109 His Glu Gly Ser Phe Gln Val Pro Val Leu Cys Ala Val Met Asn Val  
 110 35 40 45  
 113 Val Phe Ile Thr Ile Leu Ile Ala Leu Ile Ala Leu Ser Val Gly  
 114 50 55 60  
 117 Gln Tyr Asn Cys Pro Gly Gln Tyr Thr Phe Ser Met Pro Ser Asp Ser  
 118 65 70 75 80  
 121 His Val Ser Ser Cys Ser Glu Asp Trp Val Gly Tyr Gln Arg Lys Cys  
 122 85 90 95  
 125 Tyr Phe Ile Ser Thr Val Lys Arg Ser Trp Thr Ser Ala Gln Asn Ala  
 126 100 105 110  
 129 Cys Ser Glu His Gly Ala Thr Leu Ala Val Ile Asp Ser Glu Lys Asp  
 130 115 120 125  
 133 Met Asn Phe Leu Lys Arg Tyr Ala Gly Arg Glu Glu His Trp Val Gly  
 134 130 135 140  
 137 Leu Lys Lys Glu Pro Gly His Pro Trp Lys Trp Ser Asn Gly Lys Glu  
 138 145 150 155 160  
 141 Phe Asn Asn Trp Phe Asn Val Thr Gly Ser Asp Lys Cys Val Phe Leu  
 142 165 170 175  
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 149 Ile Cys Asn Lys Pro Tyr Lys  
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 154 <211> LENGTH: 759  
 155 <212> TYPE: DNA  
 156 <213> ORGANISM: Homo sapiens  
 158 <400> SEQUENCE: 3  
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 161 aagagagttt ctgcaagaca tgacacaaag ctgctagcag aaaaatcaaaa cgctgattaa 120  
 163 aagaagcacg gatgtatgac caaacataaa aagtgtttta taattgttgg tgttttaata 180  
 165 acaactaata ttattactct gatagttaaa ctaactcgag attctcagag tttatgcccc 240

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167	tatgatttcca	aaacaaatgc	tattattct	ctaaagaaga	aggagattgg	300	
169	aattcaagta	aatacaactg	ttccactcaa	catgccgacc	taactataat	tgacaacata	360
171	gaagaaatga	attttcttag	gcggataaaa	tgcagttctg	atcaactggat	tggactgaag	420
173	atggcaaaaa	atcgaacagg	acaatggta	catggagcta	catttaccaa	atcggttggc	480
175	atgagaggga	gtgaaggatg	tgccttacctc	agcgatgt	gtgcagcaac	agctagatgt	540
177	tacaccgaaa	gaaaatggat	ttgcaggaaa	agaatacact	aagttaatgt	ctaagataat	600
179	ggggaaaata	gaaaataaca	ttattaagtg	taaaaccagc	aaagtacttt	tttaattaaa	660
181	caaagttcga	gttttgtacc	tgtctggta	attctgctta	cgtgtcaggc	tacacataaaa	720
183	agccacttca	aagattggca	aaaaaaaaaa	aaaaaaaaaa			759
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189	<213> ORGANISM: Homo sapiens						
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197	Thr Thr Asn Ile Ile Thr Leu Ile Val Lys Leu Thr Arg Asp Ser Gln						
198	20	25	30				
201	Ser Leu Cys Pro Tyr Asp Trp Ile Gly Phe Gln Asn Lys Cys Tyr Tyr						
202	35	40	45				
205	Phe Ser Lys Glu Glu Gly Asp Trp Asn Ser Ser Lys Tyr Asn Cys Ser						
206	50	55	60				
209	Thr Gln His Ala Asp Leu Thr Ile Ile Asp Asn Ile Glu Glu Met Asn						
210	65	70	75	80			
213	Phe Leu Arg Arg Tyr Lys Cys Ser Ser Asp His Trp Ile Gly Leu Lys						
214	85	90	95				
217	Met Ala Lys Asn Arg Thr Gly Gln Trp Val His Gly Ala Thr Phe Thr						
218	100	105	110				
221	Lys Ser Phe Gly Met Arg Gly Ser Glu Gly Cys Ala Tyr Leu Ser Asp						
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243	gcgcattttt	ttcttaatca	tgtttctgac	aatcatgtg	tgtgaatgg	ttgctgcttt	180
245	aagcgaataa	agagctaact	gccatcaaga	gccatcagta	tgtctcaag	ctgcattgccc	240
247	agaaagctgg	attgggtttc	aaagaaaatgt	tttcttattt	tctgatgaca	ccaagaactg	300
249	gacatcaagt	cagagggttt	gtgactcaca	agatgctgt	cttgctcagg	ttgaaagctt	360
251	ccaggaactg	aatttcctgt	tgagatataa	aggcccatct	gatcaactgga	ttgggctgag	420
253	cagagaacaa	ggccaaccat	ggaaatggat	aaatggtaact	gaatggacaa	gacagttcc	480
255	tatcctggga	gcaggagagt	gtgccttattt	gaatgacaaa	ggtgccagta	gtgccaggca	540
257	ctacacagag	aggaagtgg	tttgccttcaa	atcagatata	catgtctaga	tgttacagaca	600

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263	gaaaatacaa	atcaaaaatca	tagtaaaata	ttacctgttt	tcatggct	aatattacct	780									
265	gttctccac	tgtaatgac	atacccgaga	atgagtaatt	tataaataaa	agagatttaa	840									
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281	Pro	Ala	Asn	Pro	Gly	Cys	Leu	His	Ser	Lys	Glu	His	Ser	Ile	Lys	Ala
282						20			25				30			
285	Thr	Leu	Ile	Trp	Arg	Leu	Phe	Phe	Leu	Ile	Met	Phe	Leu	Thr	Ile	Ile
286						35			40				45			
289	Val	Cys	Gly	Met	Val	Ala	Ala	Leu	Ser	Ala	Ile	Arg	Ala	Asn	Cys	His
290		50					55				60					
293	Gln	Glu	Pro	Ser	Val	Cys	Leu	Gln	Ala	Ala	Cys	Pro	Glu	Ser	Trp	Ile
294		65				70			75				80			
297	Gly	Phe	Gln	Arg	Lys	Cys	Phe	Tyr	Phe	Ser	Asp	Asp	Thr	Lys	Asn	Trp
298						85			90				95			
301	Thr	Ser	Ser	Gln	Arg	Phe	Cys	Asp	Ser	Gln	Asp	Ala	Asp	Leu	Ala	Gln
302						100			105				110			
305	Val	Glu	Ser	Phe	Gln	Glu	Leu	Asn	Phe	Leu	Leu	Arg	Tyr	Lys	Gly	Pro
306						115			120				125			
309	Ser	Asp	His	Trp	Ile	Gly	Leu	Ser	Arg	Glu	Gln	Gly	Gln	Pro	Trp	Lys
310						130			135				140			
313	Trp	Ile	Asn	Gly	Thr	Glu	Trp	Thr	Arg	Gln	Phe	Pro	Ile	Leu	Gly	Ala
314		145				145			150				155			160
317	Gly	Glu	Cys	Ala	Tyr	Leu	Asn	Asp	Lys	Gly	Ala	Ser	Ser	Ala	Arg	His
318						165			170				175			
321	Tyr	Thr	Glu	Arg	Lys	Trp	Ile	Cys	Ser	Lys	Ser	Asp	Ile	His	Val	
322						180			185				190			

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